

20010828.qrp v02_n295.qrl.20010828

Date: Tue, 28 Aug 2001 19:03:04 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2295

QRP-L Digest 2295

Topics covered in this issue include:

- 1) [105895] More on dual coax balanced feeders
by Nick Kennedy <nkennedy@tcainet.net>
- 2) [105896] Re: JULY 2001 QQ
by "Pablo L. Robles" <wp4jxd@isla.net>
- 3) [105897] Checking capacitor leakage
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 4) [105898] Re: Old P.S. Getting Tired
by Tom <kkleiner@megsinet.net>
- 5) [105899] HELP - Racal-Dana Power Meter repair
by "Mike Newman" <mnewman@clear.net.nz>
- 6) [105900] Re: Lower Price on FT-817
by "Mike Pupeza" <mpupeza@sympatico.ca>
- 7) [105901] Looking for QRP Quarterly Columnist to cover QRP Club Activities
by "Craig W. Behrens" <craigwb@hiwaay.net>
- 8) [105902] Which QRP rig
by Donn Kuse <casey.jay@gte.net>
- 9) [105903] Re: Identify this component - please!
by FRAN FLYNN <fflynn@adelphia.net>
- 10) [105904] Re: Which QRP rig
by "Trevor Jacobs" <fxtech@earthlink.net>
- 11) [105905] Re: Which QRP rig
by "Karl F. Larsen" <k5di@zianet.com>
- 12) [105906] Re: Which QRP rig
by "Winston F. Jones" <winjones@ix.netcom.com>
- 13) [105907] Re: Checking capacitor leakage
by "Phil (VA3UX)" <phil@vaxxine.com>
- 14) [105908] Re: Which QRP rig
by "Bill Allen" <wallen@our-town.com>
- 15) [105909] Re: Which QRP rig
by "Lee S. Mairs" <lmairs@cox.rr.com>
- 16) [105910] Re: TKIT 1056 on 6 meters
by "ZOOM" <kandrparker@sympatico.ca>
- 17) [105911] Re: [NJQRP] DC Voltage Booster?
by "Kevin F. Glynn" <kfglynn@mindspring.com>
- 18) [105912] Re: Which QRP rig
by Mike <mmorrow@companet.net>
- 19) [105913] hand punch question

- by "Rich Dailey, KA80KH" <okh.npi@gte.net>
- 20) [105914] CQC Test W0CQC
by "Al Dawkins" <alk0frp@home.com>
- 21) [105915] 30M SST spans the globe!
by "N7SG K7FD" <k7fd@hotmail.com>
- 22) [105916] Re: OT- cellular phone beam antennas
by adamvaz@palm.net (Adam Vazquez)
- 23) [105917] Voltage boosters
by Peter_Simpson@ne.3com.com
- 24) [105918] Re: Lower Price on FT-817
by "Mike Yetsko" <myetsko@insydesw.com>
- 25) [105919] Hilbert filter for binaural reception
by "Leon Heller" <leon_heller@hotmail.com>
- 26) [105920] Poqet
by John Payne <paynej1@strato.net>
- 27) [105921] Re: hand punch question
by "E. Roswell" <eroswell@monmouth.com>
- 28) [105922] Re: battery voltage indicator]
by "Bill Jones" <kd7s@psnw.com>
- 29) [105923] Re: TKIT 1056 on 6 meters
by "James P. Osburn, P.E." <j.p.osburn@ieee.org>
- 30) [105924] Re: TKIT 1056 on 6 meters
by "James P. Osburn, P.E." <j.p.osburn@ieee.org>
- 31) [105925] Re: OT- cellular phone beam antennas
by "Randy Randall" <RANDALLR@Healthall.com>
- 32) [105926] Re: TKIT 1056 on 6 meters
by DK3RED@t-online.de (Ingo DK3RED)
- 33) [105927] Re: [Elecrafft] Paddle for Portable use
by "N7SG K7FD" <k7fd@hotmail.com>
- 34) [105928] Re: TKIT 1056 on 6 meters
by "ccaro" <cjcaro35@hotmail.com>
- 35) [105929] Re: TKIT 1056 on 6 meters
by "ZOOM" <kandrparker@sympatico.ca>
- 36) [105930] TKIT 1056 on 6 meters
by NM5Mike@aol.com
- 37) [105931] For Sale
by "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
- 38) [105932] Re: TKIT 1056 on 6 meters
by "Donny Sirait" <dsirait@centrin.net.id>
- 39) [105933] Argosy sold
by Edwin Lappi <ae4ec@usa.net>
- 40) [105934] Help! I need a source for "odd" value high-precision resistors..
by "Phinizy, William" <wphinizy@filenet.com>
- 41) [105935] Re: Help! I need a source for "odd" value high-precision resistors..
by Jerry Haigwood <w5jh@swlink.net>
- 42) [105936] Re: TKIT 1056 on 6 meters
by "ZOOM" <kandrparker@sympatico.ca>
- 43) [105937] Interesting HB site

- by dmaliniak@penton.com
- 44) [105938] 6M receiver
by "Steven Weber" <kd1jv@moose.ncia.net>
- 45) [105939] Re: Help! I need a source for "odd" value high-precision resistors..
by "Robert P. Okas" <vintage@best.com>
- 46) [105940] Re: Help! I need a source for "odd" value high-precision resistors..
by "Leon Heller" <leon_heller@hotmail.com>
- 47) [105941] Re: TKIT 1056 on 6 meters
by Bruce Muscolino <w6toy@erols.com>
- 48) [105942] NEQRP SSB NET TONITE Tuesday at 7:30PMEDST 7.285Mhz +-5Khz
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 49) [105943] HW-8 package sold
by Edwin Lappi <ae4ec@usa.net>
- 50) [105944] Thanks for antenna help
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 51) [105945] Sheet Metal Fabrication kit
by "Mugleston, Brad" <brad.mugleston@gwl.com>
- 52) [105946] Michigan QRP Net 9:00 PM Easntern time on 3.535 Mhz
by "Kwik, Ed " <ed.kwik@delphiauto.com>
- 53) [105947] IC 737
by "Rich Wilkerson" <richqrp@home.com>
- 54) [105948] Cover of July 2001 QRP Quarterly
by "Mike Morrell" <morrellm@ameritech.net>
- 55) [105949] [CONTEST] Fall QRP Homebrewer Sprint Announcement
by Ken Newman <N2CQ@citnet.com>
- 56) [105950] Re: Cover of July 2001 QRP Quarterly
by "Roof Joe" <jroof@mindspring.com>

Date: Mon, 27 Aug 2001 19:07:49 -0500
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [105895] More on dual coax balanced feeders
Message-ID: <01C12F2B.9152B3A0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

I learned several interesting things from our discussion on using dual coax cables (or twinax) as a shielded balanced line. But a few questions were still open. So I took 'em to the supreme court--the transmission line gurus on rec.radio.amateur.antenna and got a little more enlightenment.

The questions:

1. Why is the equivalent Z_o equal to twice the Z_o of the individual cables?

2. What is the loss of this line compared with the loss of a single coax of the same type. (Matched line in both cases.)
3. What current (if any) flows in the shields? Is there longitudinal current flowing, or just current flowing around the circumference?
4. I understand that it's not necessary for the two coax lines to be run in contact or close proximity--they can separate with no effect on the system. Correct?

The answers:

1. I was making it too complicated. You have two 50 ohm cables operating in their "normal" mode in series--total impedance is 100 ohms. Some answers gave more theory than that.
2. They are equal. That is, a single 50 ohm cable supplying 100 watts to a 50 ohm load will have the same loss as the total loss in twin 50 ohm cables supplying 100 watts to a 100 ohm load. So Mike, tell that smart-alec that you were right and he is wrong.
3. Longitudinal current flows on the shield, equal to and in the opposite direction as the current in the center conductor. This is true even though neither the source nor the load is connected to the shields, and is the reason I say the cables are operating in their "normal" mode. Voltage and current related by the Z_0 of the lines.
4. That's correct--the lines don't interact.

Numbers for a 100 watt matched case example:

Parameter	Twin Coax	Single Coax
Load R	100 ohms	50 ohms
Load Power	100 w	100 w
Source & Load V	100 volts	70.7 volts
Line I	1 amp	1.414 amps
Coax E, cntr to shld	50 volts	70.7 volts
Power per line	50 watts	100 watts
Loss per line	X/2 watts	X watts
Total loss	X watts	X watts

Each line is carrying half of the total power, yet each is the 'return' for the other. I found that sort of fascinating.

72--Nick, WA5BDU

BTW, for those that missed earlier posts, the configuration is like this:

Two identical coax cables in parallel. Center conductors go to the two terminals of a balanced source, such as the output terminals of your Matchbox. Shields connect together on both ends. (May ground at the source end, but it doesn't matter.) Center conductors connect to the load (antenna) at the load end.

Date: Mon, 27 Aug 2001 20:06:44 -0400
From: "Pablo L. Robles" <wp4jxd@isla.net>
To: qrp-1@Lehigh.EDU
Subject: [105896] Re: JULY 2001 QQ
Message-ID: <3B8AE094.F9BDF31D@isla.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=x-user-defined
Content-Transfer-Encoding: 7bit

Got mine on Saturday, this is one Piece of Art.

72s from KP4 land,

Pablo
WP4JXD

George Gingell wrote:

> This is to announce that the JULY issue of The QRP Quarterly Journal is
> now in stock as of today. All regular Subscribers should expect to
> receive their copies shortly. All are in the mail. Also those who renewed
> late and were advised that they would be added to the special mailing
> list, should receive their copy next week. I mailed out a large quantity
> today.
>
> All Questions about Subscriptions should go to Mark Milburn, KQ0I.
>
> "Mark R. Milburn" <KQ0I@arrl.net>
>
> Contact me for Back Issue Sales ONLY.
>
> Sir George, The First :^}
>

> 72 ES
> QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
> Former QRP A.R.C.I. Net Manager and Board of Director Member.
> Gingell & Company, Ltd. Small Business Telephone Systems
> Notary Public and Commercial Locksmith Services (301) 572-6789 Office & Fax
> George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
> Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
> Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
> Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.
>
> "72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Mon, 27 Aug 2001 19:06:06 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <w8diz@fpqrp.com>
Cc: <qrp-1@Lehigh.EDU>
Subject: [105897] Checking capacitor leakage
Message-ID: <024e01c12f55\$3ba2dfa0\$4e100a0a@rohredt2000>

You need a known good cap of same type. Or experience in what the leakage current might be for a good cap of the type you suspect.

Turn off supply, bleed down all electrolytic caps first.
Lift one end of the suspect cap in the power supply. Connect DC Ma scale of meter to it, in series to ground. (Plus to the cap minus lead). (Reverse this if a can type cap where the negative is hard attached to chassis).
Turn on supply and note any leakage current. Connect known good cap to same point in circuit and see what leakage current it might have. If none, or lower, then you are justified in replacing the old cap. With increased cap leakage, the ripple, (AV voltage riding on top of The DC) will increase, so that also is a good confirming check, to see abnormally high ripple. You need a low range AC volts scale to look at the ripple, and you may need to add a known good blocking cap in series with the meter lead. Blocking cap reactance should be low, (large cap) that can pass 60 Hz and its harmonics.

72,
Stuart K5KVH

Date: Mon, 27 Aug 2001 19:06:01 -0500
From: Tom <kkleiner@megsinet.net>
To: qrp-1@lehigh.edu

Subject: [105898] Re: Old P.S. Getting Tired
Message-ID: <3B8AE069.4DF7EEDB@megsinet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

When checking the caps, don't forget the tantalums. They frequently age faster than other components.

Tom, N9HWC

Date: Tue, 28 Aug 2001 12:24:04 +1200
From: "Mike Newman" <mnewman@clear.net.nz>
To: <qrp-1@Lehigh.EDU>
Subject: [105899] HELP - Racal-Dana Power Meter repair
Message-ID: <001001c12f57\$d0c95440\$4f92a7cb@w98sysrec>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi

I have a Racal-Dana 9103 absorption power meter, 1 MHz - 1 GHz. One end has an N-type female connector, flange mounted to a 50 ohm dummy load. At the other end is a meter calibrated in 1-100 w and 0-25 w ranges.

The centre pin of the N connector has retreated into the connector body, and no longer mates with the male pin on connecting cable. Has any one had a similar problem?

Can someone please give me some advice on how to dismantle the unit to enable me to repair/replace the connector. I don't want to damage the unit or dismantle any more than I have to.

Thanks
Mike ZL1BNB

Date: Mon, 27 Aug 2001 20:53:57 +0100
From: "Mike Pupeza" <mpupeza@sympatico.ca>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [105900] Re: Lower Price on FT-817
Message-ID: <004e01c12f32\$03c50b80\$b4abacce@pupeza>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dayton 2001 prices were \$620 on Sunday!

Mike VE3EQP.....>

Date: Mon, 27 Aug 2001 20:09:22 -0500
From: "Craig W. Behrens" <craigwb@hiwaay.net>
To: "Qrparci" <qrparci@topica.com>, "QRP-L QRP-L" <qrp-l@Lehigh.EDU>
Subject: [105901] Looking for QRP Quarterly Columnist to cover QRP Club Activities
Message-ID: <LPBBIKBNB00LHAAJAHJGIEHNCJAA.craigwb@hiwaay.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

We have a big void in the QRP Quarterly since Les Shattuck has left us to go into the ministry--we need a columnist to cover club activities around the country and world.

This person needs to know how to network with folks from all over so he/she can create a quarterly digest of things going on and coming up. And, each quarter, there should be a little something extra--a spot lighting of one the fine QRP clubs.

I will personally work with our volunteer to get things back on track. As examples, the January issue had Les' column and I added a photo essay on the North GA QRP Club (NoGa). In the April issue, Les' column was missing, but I had a photo essay on the Cheese Heads. The July issue that is out has extra pictures of the Flying Pigs. You can see that we need to place more focus on this need and assure that we get reports (and incriminating pictures) on all those wild and crazy QRP personalities back into the magazine.

The contribution can be within a single article format or broken into complementing pieces as makes sense.

You can also tell that I really like "strays", those short magical pieces

and pictures that just kinda sneak their way into the QQ. Our candidate would help us gather such little gems. (Thanks to the many who shoot these items my way.)

So, there's the challenge. If you're interested, please e-mail me directly. All correspondence will be private.

Thanks for your careful consideration. There's a lot of fun to be had in this journey!

72/73 & DX,
Craig W. Behrens--NM4T (QQ Editor)
Madison, AL

Date: Mon, 27 Aug 2001 21:11:18 -0400
From: Donn Kuse <casey.jay@gte.net>
To: "qrp-1@Lehigh.EDU" <qrp-1@Lehigh.EDU>
Subject: [105902] Which QRP rig
Message-ID: <3B8AEFB6.5565EF45@gte.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Would like some help in determining which QRP rig to buy/build for someone who has had very little experience in building anything but some small Heathkit equipment.
Which ones, if any, have step by step procedures similar to the old Heathkit construction manuals? Or which ones come the closest to it?
Tnx, 73, Donn, WB4ZWT
66 and still learning

Date: Mon, 27 Aug 2001 21:39:16 -0400
From: FRAN FLYNN <fflynn@adelphia.net>
To: qrp-1@lehigh.edu
Subject: [105903] Re: Identify this component - please!
Message-ID: <3B8AF643.8A716C7C@adelphia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It's dissipation is less than 5 watts? :)

>So how do we classify this as QRP Hi Hi ;-) Well, sounds like either a burnt
>out inductor or a .68 Ohm resistor. I'd check with the manufacturer.

Another off topic subject, the voltage doubler, it so happens I have a schematic for one of those on my web page ["home.adelphia.net/~fflynn"](http://home.adelphia.net/~fflynn). Look at the battery charger under ham radio. Although it's a voltage doubler, expect more like 20 volts or so under load and it is not 100% efficient, so I would consider that if my power source was limited. Also, if I keep the oscillator freq down around 1khz, I don't need high speed rectifiers. I noticed the diodes would heat up with it running around 20khz. At lower freqs you can use "garden variety" rectifier diodes. The left half of the schematic is the doubler, just before things get to the 317 regulator. It's really nothing but a 555 oscillator feeding a "totem pole" current amplifier. Oh, yeah, it will make "birdies" in your radio unless very well shielded.

-Fran km1z

Date: Mon, 27 Aug 2001 19:04:46 -0700
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <casey.jay@gte.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105904] Re: Which QRP rig
Message-ID: <00e501c12f65\$d0827ee0\$ad9eb2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Donn,

I can't speak for all of the kit companies because I haven't built stuff from all of them, but Dave Benson's (Small Wonder Labs) manuals are very easy to follow and his kits are a breeze to put together and a joy to operate. Check out his web site at: <http://www.smallwonderlabs.com/>. I'd suggest one of his SW+ series of rigs. I guess that Dave is working on a successor to the DSW series, which I'm sure will be a lot of fun. I really enjoy my DSW-40 and use it quite often when camping and out of hotels. Dave's kits are very high quality. You'll find info on his kits at the web site. Take care...

72

Trev

KG6CYN

----- Original Message -----

From: Donn Kuse <casey.jay@gte.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Monday, August 27, 2001 6:11 PM

Subject: Which QRP rig

> Would like some help in determining which QRP rig to buy/build for
> someone who has had very little experience in building anything but some
> small Heathkit equipment.
> Which ones, if any, have step by step procedures similar to the old
> Heathkit construction manuals? Or which ones come the closest to it?
> Tnx, 73, Donn, WB4ZWT
> 66 and still learning
>

Date: Mon, 27 Aug 2001 19:59:46 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>

To: Donn Kuse <casey.jay@gte.net>

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [105905] Re: Which QRP rig

Message-ID: <Pine.LNX.4.33.0108271957140.3172-1000000@localhost.localdomain>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

With the Yaesu model 817 at \$650, there is nothing in kit form that even comes close in performamce and small size and low power consumption. This even covers 6 meters through 70 cm am, ssb or FM! No-one comes close as I said.

On Mon, 27 Aug 2001, Donn Kuse wrote:

> Would like some help in determining which QRP rig to buy/build for
> someone who has had very little experience in building anything but some
> small Heathkit equipment.
> Which ones, if any, have step by step procedures similar to the old
> Heathkit construction manuals? Or which ones come the closest to it?
> Tnx, 73, Donn, WB4ZWT
> 66 and still learning
>
>

--

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Mon, 27 Aug 2001 22:24:32 -0400
From: "Winston F. Jones" <winjones@ix.netcom.com>
To: <casey.jay@gte.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105906] Re: Which QRP rig
Message-ID: <001101c12f68\$939e1680\$60a15b40@netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think Ten-Tec's T-Kits come closer than any others to being like the Heathkits.

----- Original Message -----

From: "Donn Kuse" <casey.jay@gte.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 27, 2001 21:11 PM
Subject: Which QRP rig

> Would like some help in determining which QRP rig to buy/build for
> someone who has had very little experience in building anything but some
> small Heathkit equipment.
> Which ones, if any, have step by step procedures similar to the old
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> Tnx, 73, Donn, WB4ZWT
> 66 and still learning
>

Date: Mon, 27 Aug 2001 22:41:41 -0400
From: "Phil (VA3UX)" <phil@vaxxine.com>
To: Qrp-1@Lehigh.EDU
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105907] Re: Checking capacitor leakage
Message-ID: <5.0.2.1.0.20010827223822.009f31f0@vaxxine.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

If the original poster will tell me the make and part number of the cap, I may be able to tell you the max design leakage current. Formulas for the leakage currents are in many of the manufacturers catalogs (I have several). The formulas differ for different series of caps.

Phil

At 07:06 PM 8/27/2001 -0500, Stuart Rohre wrote:

>You need a known good cap of same type. Or experience in what the leakage
>current might be for a good cap of the type you suspect.
>
>Turn off supply, bleed down all electrolytic caps first.
>Lift one end of the suspect cap in the power supply. Connect DC Ma scale of
>meter to it, in series to ground. (Plus to the cap minus lead). (Reverse
>this if a can type cap where the negative is hard attached to chassis).
>Turn on supply and note any leakage current. Connect known good cap to same
>point in circuit and see what leakage current it might have. If none, or
>lower, then you are justified in replacing the old cap. With increased cap
>leakage, the ripple, (AV voltage riding on top of The DC) will increase, so
>that also is a good confirming check, to see abnormally high ripple. You
>need a low range AC volts scale to look at the ripple, and you may need to
>add a known good blocking cap in series with the meter lead. Blocking cap
>reactance should be low, (large cap) that can pass 60 Hz and its harmonics.
>
>72,
>Stuart K5KVH

Date: Mon, 27 Aug 2001 21:36:04 -0500
From: "Bill Allen" <wallen@our-town.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105908] Re: Which QRP rig
Message-ID: <001801c12f6a\$32003dc0\$74bac1d0@ourtown.com>

Donn,

I have not built any Heathkits. However, I have built a DSW-40 from Small Wonder Labs <http://www.smallwonderlabs.com> and I have built an Elecraft K2 <http://www.elecraft.com>, in that order. I was a novice kit builder at the time. A SWL kit would be a good starter kit for a monoband rig that is not overwhelming. The K2 is also easy to build, though quite a large kit, due to its well thought out design and documentation. The K2 is multiband with lots of options. Both of these kits are step-by-step with explanations all the way with alignment and usage instructions. Both companies are also very helpful with any problems the builder may encounter. I hope this helps.

72

KC5ADF

Bill Allen

KC5ADF

FISTS #7332 -- FPqrp #337

10-10 #71178 -- K2 #1068

QRP-L #2357

----- Original Message -----

From: "Donn Kuse" <casey.jay@gte.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Monday, August 27, 2001 20:11 PM

Subject: Which QRP rig

> Would like some help in determining which QRP rig to buy/build for
> someone who has had very little experience in building anything but some
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> 66 and still learning
>
>

Date: Mon, 27 Aug 2001 22:59:14 -0400

From: "Lee S. Mairs" <lmairs@cox.rr.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Subject: [105909] Re: Which QRP rig
Message-ID: <00a201c12f6d\$6c115320\$6401a8c0@cox.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have an SW-20 and it is loads of fun. Dave Benson will actually talk you thru any de-bugging that is necessary. Couldn't be more pleased.
73 de Lee, KM4YY

Maybe somebody should have labeled the future "Some assembly required."
--Security Chief Michael Garibaldi (Babylon 5 - Ep. 35)

Date: Mon, 27 Aug 2001 18:43:11 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <j.p.osburn@ieee.org>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105910] Re: TKIT 1056 on 6 meters
Message-ID: <001501c12f49\$a6a788c0\$3294fea9@robertparker>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have the same kit and it does state in the instructions that above around 12MHZ, the receiver becomes a little unstable and increases in instability as the frequency goes up. So at 6 it may not be usable! That being said i'm all for experimenting so give it a shot. It certainly is a worthwhile kit at a very affordable price. Plus it works surprizingly well!!

Let us know how it goes. I'm sure there are many other interested parties that would also be interested.

Cheers,
Robert
VE3RPF

----- Original Message -----
From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, August 27, 2001 2:23 PM
Subject: TKIT 1056 on 6 meters

> I'm thinking about modifying a Ten-Tec T-Kit 1056 receiver
> for 6 meters. This is the one that comes with all the parts for
> 160 meters to 10 meters, but it doesn't come with the parts
> for 6 meters. Buy making the right substitutions I think it will
> work on 6 meters. Has anyone done this already? What did
> you do to do it?
>
> Thanks,
>
> Jim, WD9EYB
> -----
> Reply-To: j.p.osburn@ieee.org
>
>
>

Date: Mon, 27 Aug 2001 23:01:24 -0400
From: "Kevin F. Glynn" <kfglynn@mindspring.com>
To: <njqrp@njqrp.org>, <qrp-l@lehigh.edu>
Subject: [105911] Re: [NJQRP] DC Voltage Booster?
Message-ID: <003c01c12f6d\$b9fb9d20\$1f2cf7a5@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi John and gang,

Check out Sam Ulbing N5UAU's site at <http://n4uautoo.home.sprynet.com/>. I believe Sam designed the Switched Cap Audio Filter that's so popular as well.

GL

72 Kevin N2T0
Brooklyn, NYC
kfglynn@mindspring.com

----- Original Message -----

From: "John L. Sielke" <w2agn@pobox.com>
To: <qrp-l@lehigh.edu>; <njqrp@njqrp.org>
Sent: Sunday, August 26, 2001 1:53 PM
Subject: [NJQRP] DC Voltage Booster?

> Somewhere I read an article on a booster, that will take 12V in, and give
you 18V or
> so out. Max current I need is about 2 amps. What I want to do is use my
old laptop
> for logging, but it won't run off less than about 16V DC.
>
> I thought there was a QST article a few months ago.
> Anyone know of a kit or anything like that?
>
> John W2AGN
>
> ===== NJ QRP Club Mailing List =====
> To unsubscribe from this list, send email to listserver@applegate.org
> and put the text "unsubscribe njqrp" in the message. To post a
> message to the list, send email to njqrp@njqrp.org.

Date: Mon, 27 Aug 2001 21:56:49 -0500
From: Mike <mmorrow@companet.net>
To: k5di@zianet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105912] Re: Which QRP rig
Message-ID: <3B8B0871.DA8@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl F. Larsen wrote:

> With the Yaesu model 817 at \$650, there is nothing in kit form that
> even comes close in performace and small size and low power
> consumption.

I suppose "low power consumption" must be a relative thing.

The FT-817 consumes about 400 mA on receive, so it is definitely NOT a
backpacker's radio unless one plans to carry a lot of battery weight.
The FT-817 will drain a heavy 7 amp-hour battery over a couple of days.
The FT-817 is really only practical, other than short term, in
situations where you'd have enough power to supply a larger radio that
has better performance.

But the FT-817 *is* cute and currently unique (unfortunately). I can
hardly wait for the improved model that really is designed for QRP'ers,

rather than Japanese Fourth Class license holders.

Mike / KK5F

Date: Tue, 28 Aug 2001 03:37:16 +0100
From: "Rich Dailey, KA80KH" <okh.npi@gte.net>
To: qrp-1@lehigh.edu
Subject: [105913] hand punch question
Message-ID: <3.0.32.20010828033712.006caf1c@mail.gte.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Is the hand punch at grizzly industrial the model #g8780?
Anyone use this model? Is it doing a good job for you
(manhattan pads)?

[http://www.grizzlyindustrial.com/cgi-bin/lookup.cgi/products/lookup.cfg?q=](http://www.grizzlyindustrial.com/cgi-bin/lookup.cgi/products/lookup.cfg?q=item&kw=G8780)
[item&kw=G8780](http://www.grizzlyindustrial.com/cgi-bin/lookup.cgi/products/lookup.cfg?q=item&kw=G8780)

tnx
Rich

Rich Dailey, KA80KH - Phyllis Dailey, KB4NPI

Date: Mon, 27 Aug 2001 21:45:10 -0600
From: "Al Dawkins" <alk0frp@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105914] CQC Test W0CQC
Message-ID: <004a01c12f73\$d63497c0\$0200a8c0@c1810176a>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well! tough row to hoe.
The X5 Flare, roof shinglers show up at 2 pm Sunday,
I had to remove my Evaporative cooler.
Zack a DJ from Colorado University in Boulder was in the shack recording
sound bytes for a Morse program. I have the face for Radio, so it was Fine.
Gee needed a Z (Zack) No call to use to call me.
Got in a bit over 4 hours (sorry too much happened).

Sorry condx were BAD
If I did not hear you it's not your fault
63 Qso's
284 QSO pts
16 names (needed that Zack)
32 SPC's (few on 40/15 no 10m)
145,408 points (remember W0CQC can't WIN so submit you logs low as they may be
Al K0FRP op of W0CQC

Date: Mon, 27 Aug 2001 22:29:10 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [105915] 30M SST spans the globe!
Message-ID: <F140Aaaz7EjQxzmWecm00011c42@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Just a quick note to share my exuberance :)

My new SST @ 1.9w and zipcord dipole at 50' just worked DJ7PW, Wolf on 10.115MHz...got a 469 (thanks to his 3 el yagi up 15 meters)...

Yahoo!

73 John K7FD, 30m newbie

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Tue, 28 Aug 2001 02:38:57 -0400
From: adamvaz@palm.net (Adam Vazquez)
To: n4so@juno.com, qrp-1@Lehigh.EDU
Subject: [105916] Re: OT- cellular phone beam antennas
Message-ID: <GIRMGX00.HZV@mo120uhou.palm.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

n4so@juno.com wrote on 8/27/01 10:26 am:

Cellular phones are qrp -- question is -

Where can I buy a cellular phone yagi beam?
House is out in the country away from a tower.

Larsen sells yagis for the 800 and 900 Mhz business band. There are corner reflector antennas you could make with fine mesh, a mobile external cell antenna and a copy of the ARRL Antenna Book.

If you are really in a bad spot, check out what cell coverage is in your area. I was visiting a friend in her new house in Newburgh NY and she almost had her baby when my AT&T WAP phone rang. She has Voicestream and Vorison.

73 Adam Kb2Jpd

Date: Tue, 28 Aug 2001 07:24:48 -0400
From: Peter_Simpson@ne.3com.com
To: w2agn@pobox.com
Cc: qrp-1@lehigh.edu
Subject: [105917] Voltage boosters
Message-ID: <85256AB6.003FD934.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

a.k.a. DC/DC converters. We use them here at work in our products. The disadvantage, as Bruce mentions, is that you will need higher current at 12 volts than you need from the output at 18 volts. He failed to mention their two advantages: you can get a higher output voltage than you put in, and they are very efficient, compared to linear regulators. This means they generate less heat, and more of your battery's precious power ends up doing what you want it to.

Linear Technology has a nice line, and good applications information.

<http://www.linear-tech.com/>

12V in to 18V out shouldn't be a problem. The challenge will be getting the right transformer/inductors. Well, maybe it *won't* be a challenge for this group :-)

72,
Peter, KA1AXY

Date: Tue, 28 Aug 2001 07:22:22 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <K2UD@adelphia.net>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [105918] Re: Lower Price on FT-817
Message-ID: <00d501c12fb4\$38ec17e0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: Howard Kraus <K2UD@adelphia.net>

>

> I wonder if they have a new improved version in the works? If so, they
may

> be trying to clear inventory in anticipation of a new release. Kinda
like

> the ICOM IC-706, IC-706MkII, IC-706MkIIG thing.

>

> Howard Kraus, K2UD

There's been rumors for a while now of a different
firmware set for the 817 that would at least allow
WX band. I wonder if maybe they just tweaked for
that? In my mind, leaving the WX band off was a
SERIOUS mistake for a radio that seems to me to
be designed for a 'backpacker' type transportable.

Mike

Date: Tue, 28 Aug 2001 12:26:43 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [105919] Hilbert filter for binaural reception
Message-ID: <F42UtLch9wPiyAphwFu00017489@hotmail.com>
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

I've just implemented a Hilbert filter on my Analog Devices Ezkit Lite DSP system, to generate I and Q binaural outputs from the audio output from an Rx. I want to experiment with DSP modulation and demodulation, and this looked like a good starting point. I used the macros available from Rutgers University to simplify the code:

<http://www.ece.rutgers.edu/ftp/sjo/ezkitl/ezkitl.html>

It's the standard arrangement, with a delay in the In-phase path. The filter has 127 taps, and was designed with the new FilterExpress filter design software available free from Systolix:

<http://www.systolix.co.uk>

This software is excellent, and can design and simulate all the FIR and IIR filters you are likely to want.

The filter seems to add a lot more 'presence' to the signal, and makes it easier to pick weak signals out of the noise. The filter can be switched in and out with the user interrupt button; the FL1 LED is on when the filter is active.

Please email me if you would like the source code. The latest Timewave DSP has a similar option available. I think they charge for it, though.

73, Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Tue, 28 Aug 2001 08:44:36 -0400
From: John Payne <paynej1@strato.net>
To: qrp-1@lehigh.edu
Subject: [105920] Poqet
Message-ID: <200108281243.IAA15574@green.strato.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

I have discovered that I really want a poqet Plus(PQ0201), rather than the Classic(PQ1081). Does anyone have one for sale?

thanks & 73

John N4FLJ

Date: Tue, 28 Aug 2001 09:21:54 -0400
From: "E. Roswell" <eroswell@monmouth.com>
To: qrp-1@Lehigh.EDU
Subject: [105921] Re: hand punch question
Message-ID: <3B8B9AF2.8F2454@monmouth.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Appears to be identical to the Harbor Freight one, at about the same normal price.
It currently does not appear in the latest HF fliers, and the one I last saw on the HF web site was in metric sizing.
Ed, K2MGM.

Date: Tue, 28 Aug 2001 06:36:11 -0700
From: "Bill Jones" <kd7s@psnw.com>
To: "Bill Jones" <kd7s@psnw.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105922] Re: battery voltage indicator]
Message-ID: <003801c12fc6\$66f5cf20\$9110010a@fresno>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Don,

The only place I've seen this was in the 1998 Pacificon compendium. But if you will send me your snail mail address I'll put a copy of the schematic and parts list in the mail to you.

----- Original Message -----

> Donald E Sanders wrote:

> >

> > Bill, Has the schematic and parts list been published or is it

> > available at some site. I have a need to build this type monitor.

> > TIA.

> > Don W4BWS

Date: Tue, 28 Aug 2001 08:37:21 -0500

From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>

To: "List; QRP, QRP Mailing List" <qrp-l@lehigh.edu>

Subject: [105923] Re: TKIT 1056 on 6 meters

Message-ID: <000401c12fc6\$b4cdc9a0\$dde9a0ce@aaaacomputer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Lots of people are giving me good advice the VF0 in the

1056 isn't stable enough for operation on 6 meters.

I'm now thinking about using a VX0.

Thanks,

Jim, WD9EYB

Reply-To: j.p.osburn@ieee.org

Date: Tue, 28 Aug 2001 08:16:03 -0500

From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>

To: "List; QRP, QRP Mailing List" <qrp-l@lehigh.edu>

Subject: [105924] Re: TKIT 1056 on 6 meters

Message-ID: <000301c12fc6\$b3ebf520\$dde9a0ce@aaaacomputer>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Everybody is giving me some good advice that the VF0

in the 1056 wouldn't be stable enough for 6 meters.
So, now my idea is to use a VX0.

I wonder how much I can tune a VX0 with a 50 MHz
crystal. If I can tune a 7 MHz crystal 2 kHz, maybe I
could tune a 50 MHz crystal 14 kHz.

Another problem that has occurred to me is TV channel 2.
I might have to filter that out.

Jim, WD9EYB

Reply-To: j.p.osburn@ieee.org

Date: Tue, 28 Aug 2001 09:49:48 -0500
From: "Randy Randall" <RANDALLR@Healthall.com>
To: <qrp-1@Lehigh.EDU>, <k0awb@tcon1.com>
Subject: [105925] Re: OT- cellular phone beam antennas
Message-ID: <sb8b695f.006@healthall.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Disposition: inline

My problem is there is NO carrier near my home! I am on the fringe of the =
Cincinnati and Indianapolis service areas and no carrier is interested in =
putting a cell site in our county. (But there are several businesses =
selling cell phones here so go figure!) The fun part is that the vendors =
here do not tell you that the phone does not work here locally until you =
sign the contract?! Many irrate customers here. =20

Randy KB8AS0

Randy E. Randall
Network Engineer
The Health Alliance of Greater Cincinnati
Phone 513-585-7146
Fax 513-585-7159

>>> Darrel Swenson <k0awb@tcon1.com> 08/27/01 12:58PM >>>
Ken...

If you are using a 3 watt analog phone (bag phone or installed mobile)

legally you can't... Cell Phones are limited to 5 watts ERP. =20
Trying to use one with a digital portable may cause other problems with
chip delay (propagation delay)... because you are too far from the
site. =20
I'd try to find a carrier with a site closer to your house.

72... Darrel... K0AWB

n4so@juno.com wrote:

>=20

> Cellular phones are qrp -- question is -
> Where can I buy a cellular phone yagi beam?
> House is out in the country away from a tower.

>=20

> Ken Brown-N4SO
> Mobile, AL EM50tk
> NC-20 at 5 watts and 4 ele. yagi

>=20

>

> -----
> GET INTERNET ACCESS FROM JUNO!
> Juno offers FREE or PREMIUM Internet access for less!
> Join Juno today! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.

Date: Tue, 28 Aug 2001 15:58:09 +0200
From: DK3RED@t-online.de (Ingo DK3RED)
To: QRP-L <qrp-l@lehigh.edu>
Subject: [105926] Re: TKIT 1056 on 6 meters
Message-ID: <3B8BA371.FD68535E@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Jim,

> I wonder how much I can tune a VXO with a 50 MHz
> crystal. If I can tune a 7 MHz crystal 2 kHz, maybe I
> could tune a 50 MHz crystal 14 kHz.

The 7 MHz crystal is a fundamental crystal. A lot of crystals over 20 MHz
(or so) are overtone crystals. So I think your 50 MHz crystal is so one. You
can tune only the fundamental crystals. ;o(

--

72/73 de Ingo, DK3RED (Don't forget: the fun is the power !)

eMail: dk3red@qsl.net - homepage: www.qsl.net/dk3red

Date: Tue, 28 Aug 2001 07:07:05 -0700
From: "N7SG K7FD" <k7fd@hotmail.com>
To: cgreene@fctvplus.net
Cc: qrp-1@Lehigh.EDU
Subject: [105927] Re: [Elecraft] Paddle for Portable use
Message-ID: <F99JWNDIT6bB5Rw1SSf00012115@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

G4ZPY Model 56 Miniature Paddle, brass comes engraved with your call. The base is approx one and half inches square, paddle is fabulous to the touch and sports great machine work. Look at these URLs for a close up shot of mine:

<http://www.teleport.com/~cqdx/ona.htm>

<http://www.teleport.com/~cqdx/lhouse.htm>

This key has a magnetic base. I took a mouse pad and put a thin piece of sheet metal under it, with a cut out for the paddle to nestle into...

...works perfect and I can send for hours.

Good Luck! Cu on the AIR!

73, John K7FD
G4ZPY URL: <http://website.lineone.net/~g4zpy/>

>From: Charles Greene <cgreene@fctvplus.net>
>
>Hi,
>
>I'm looking for a high quality portable paddle. It doesn't have to be flea
>weight, as I will be operating it with my K2 in my car. Any suggestions?
>
>TNX
>73, Chas, W1CG

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Tue, 28 Aug 2001 08:27:04 -0600
From: "ccaro" <cjcaro35@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105928] Re: TKIT 1056 on 6 meters
Message-ID: <0E59kibfmy43Q182H6h0000b1b0@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Jim,

Keep in mind that if you use a 12.xxx fundamental crystal and multiply by four to 6 Meters, the frequency swing will multiply by the same amount.

Regards,

Carlos #1333

----- Original Message -----

From: "Ingo DK3RED" <DK3RED@t-online.de>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 28, 2001 7:58 AM
Subject: Re: TKIT 1056 on 6 meters

> Hello Jim,
>
> > I wonder how much I can tune a VXO with a 50 MHz
> > crystal. If I can tune a 7 MHz crystal 2 kHz, maybe I
> > could tune a 50 MHz crystal 14 kHz.
>
> The 7 MHz crystal is a fundamental crystal. A lot of crystals over 20 MHz
> (or so) are overtone crystals. So I think your 50 MHz crystal is so one.
You
> can tune only the fundamental crystals. ;o(
>
> --
> 72/73 de Ingo, DK3RED (Don't forget: the fun is the power !)
>
> eMail: dk3red@qsl.net - homepage: www.qsl.net/dk3red
>

Date: Tue, 28 Aug 2001 10:30:51 -0400

From: "ZOOM" <kandrparker@sympatico.ca>
To: <j.p.osburn@ieee.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105929] Re: TKIT 1056 on 6 meters
Message-ID: <002701c12fce\$09d66ae0\$3294fea9@robertparker>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

If you parallel two crystals, you can get a larger swing!

----- Original Message -----

From: "James P. Osburn, P.E." <j.p.osburn@ieee.org>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 28, 2001 9:16 AM
Subject: Re: TKIT 1056 on 6 meters

> Everybody is giving me some good advice that the VFO
> in the 1056 wouldn't be stable enough for 6 meters.
> So, now my idea is to use a VXO.
>
> I wonder how much I can tune a VXO with a 50 MHz
> crystal. If I can tune a 7 MHz crystal 2 kHz, maybe I
> could tune a 50 MHz crystal 14 kHz.
>
> Another problem that has occurred to me is TV channel 2.
> I might have to filter that out.
>
> Jim, WD9EYB
> -----
> Reply-To: j.p.osburn@ieee.org
>
>
>

Date: Tue, 28 Aug 2001 11:05:02 EDT
From: NM5Mike@aol.com
To: qrp-1@lehigh.edu
Subject: [105930] TKIT 1056 on 6 meters
Message-ID: <59.f3fd91a.28bd0d1e@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

All:

Do oscillator cans have the stability necessary to use in amateur transmitter / receiver applications?

I noticed an oscillator in the Digikey catalog that operates at 64 MHz. Could you "mix down" to operate in the 6 meter band?

A thought from a novice builder,

Eric NM5M

Date: Tue, 28 Aug 2001 11:22:46 -0400
From: "Hartwell, Martin E, NLCIO" <mehartwell@att.com>
To: "'qrp-1@lehigh.edu'" <qrp-1@lehigh.edu>
Subject: [105931] For Sale
Message-ID: <CE96E7BD5D14DE4DB6FCEA40EA05517E0372C4@0CCLUST01EVS1.ugd.att.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello

Another item I find in excess to my needs.

World Time Clock by AEA.

I will attempt to discribe it.

About 3 inches long by 1 1/4 inch wide by 3/8 inch thick.
Dual tiem window for local and world, with a sliding switch
on the bottom to select the city in the work you wish to
see the time. Has an alarm/light button on the left side.
Color is black with white lettering, has the instruction
sheet, all to slip into a black pouch.
Requires two AAA batteries, included.

I will sell for \$15.00 plus \$1.00 shipping. This thing
doesn't weigh much.

Marty
kd8bj

Date: Tue, 28 Aug 2001 22:38:39 +0700
From: "Donny Sirait" <dsirait@centrin.net.id>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105932] Re: TKIT 1056 on 6 meters
Message-ID: <003901c12fd8\$5d524a40\$e4f192ca@donnysirait>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dear Folks,
I think overtone crystals can oscilate at their fundamental freqs
with suitable circuits.

A paralel cyrstal oscilator is described in detail in Makoto web
page as super VX0 and can swing much more especially on
the higher freq.
Makoto even build a 6 meter transciever using a super VX0

Try to visit his web page at:
www.qsl.net/7n3wvm a very good source for VX0.

Hope this helps

vy 73 de YB1B0D
Donny

Date: 28 Aug 2001 11:53:28 EDT
From: Edwin Lappi <ae4ec@usa.net>
To: qrp-1@Lehigh.EDU
Subject: [105933] Argosy sold
Message-ID: <20010828155328.10455.qmail@awcst094.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

The argosy has been sold and I will accept any amount closest to \$100.00
for the HW-8 package.
Ed, AE4EC

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Tue, 28 Aug 2001 08:58:51 -0700
From: "Phinizy, William" <wphinizy@filenet.com>
To: "QRP-1 Forum (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [105934] Help! I need a source for "odd" value high-precision resistors..
Message-ID: <C3AF5E329E21D2119C4C00805F6FF58F04B77351@hq-expo2.filenet.com>

Anybody know a source for 1-percent 1/2 watt resistors -- ideally with a full range of values, not just the usual 22K, 33K, 47K, etc.?

Thanks in advance

Bill, K6WHP

Date: Tue, 28 Aug 2001 09:35:15 -0700
From: Jerry Haigwood <w5jh@swlink.net>
To: wphinizy@filenet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [105935] Re: Help! I need a source for "odd" value high-precision resistors..
Message-ID: <3B8BC843.33B27BA7@swlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Phinizy, William" wrote:

> Anybody know a source for 1-percent 1/2 watt resistors -- ideally with a
> full range of values, not just the usual 22K, 33K, 47K, etc.?
>
> Thanks in advance
>
> Bill, K6WHP

Bill,

Mouser Electronics carry 1/8W, 1/4W, and 1/2W 1% resistors. See
<<http://www.mouser.com>> Their part number for 1/2W 1% resistors is
273-**<value>** (i.e. for a 22.1K 1/2W 1% resistor the part number would be
273-22.1K). Price is 12 cents each.

--
73, Jerry Haigwood, W5JH, Peoria, AZ USA

web page <http://www.haigwood.org>

Date: Tue, 28 Aug 2001 12:36:21 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <NM5Mike@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [105936] Re: TKIT 1056 on 6 meters
Message-ID: <002701c12fdf\$9326f1a0\$3294fea9@robertparker>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

One thing to keep in mind as the frequency goes up, the ferrite material can more easily be saturated. That's why many high frequency gear do not use cored inductors.

It's obvious that if the can is made for 64MHZ then it has a core that will not saturate at that frequency but check the specs out first to see if 64MHZ is an actual usable frequency or a maximum with limited performance.

Secondly; what frequency do you want? If your intention is to mix/divide down then to what frequency. The can is near the 6m band!

Have you thought about using a crystal module? You just have to provide 5V and a ground and they oscillate at the published frequency. They come in many different frequencies and even in the 100s of MHZ. Plus they are ultra stable not to mention cheap and widely available.

Cheers,
Robert
VE3RPF

----- Original Message -----
From: <NM5Mike@aol.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 28, 2001 11:05 AM
Subject: TKIT 1056 on 6 meters

>
> All:
>
> Do oscillator cans have the stability necessary to use in amateur
transmitter
> / receiver applications?

>
> I noticed an oscillator in the Digikey catalog that operates at 64 MHz.
> Could you "mix down" to operate in the 6 meter band?
>
> A thought from a novice builder,
>
> Eric NM5M
>
>

Date: Tue, 28 Aug 2001 12:36:54 -0400
From: dmaliniak@penton.com
To: qrp-l@lehigh.edu
Cc: njqrp@njqrp.org
Subject: [105937] Interesting HB site
Message-ID: <0FF8D72763.AE7B51EE-0N85256AB6.005B304B@penton.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Gang:

Here's one I hadn't come across before.... FYI.

<http://www.ai.com/receivers/Default.htm>

72,
David, AD2A
Glen Rock, NJ

Date: Tue, 28 Aug 2001 12:10:23 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [105938] 6M receiver
Message-ID: <200108281640.f7SGerG18156@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Probably the easiest way to listen to 6M is to build a simple converter to use with a 20M rig. An effective converter can be built with a 36 MHz clock osc can (or xtal) and a SA612. Take a look at the schematic of my 6 M transveter, which can be found on my web site,

(url in the tag line) for details of such a circuit.

BTW, speaking of the 6M transverter, if you have been waiting for it to come out and been wondering what happened to it, a couple of things. One, breaking my collar bone earlier this summer has put me way behind. Second, we found a 36 MHz LO spur coming out of the transmitter at -46 dB and it has to be at least -56 dB. I believe this is due to layout- ground loop problems on the circuit board. I have revised the layout which should fix the problem, but I'll need to have a proper double sided board made to find out for sure and due to the hit I took paying off the ER visit, haven't been able to free up the funds to do so yet :-(

72,

Steve, KD1JV in the White Mountains of New Hampshire

"Melt Solder"

<http://www.qsl.net/kd1jv/index.html>

Date: Tue, 28 Aug 2001 09:43:40 -0700 (PDT)

From: "Robert P. Okas" <vintage@best.com>

To: "Phinizy, William" <wphinizy@filenet.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [105939] Re: Help! I need a source for "odd" value high-precision resistors..

Message-ID: <Pine.BSF.4.21.0108280939120.11134-1000000@shell14.ba.best.com>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Bill,

Have you considered DigiKey? I'm looking at page 466 of the current on-line catalog and it lists BC brand 0.4 W (OK, a little shy of 1/2W) 1% resistors in the usual precision values. They're not particularly inexpensive. The catalog also contains precision resistors from other vendors. Happy surfing!

73,

Bob - W3CD

On Tue, 28 Aug 2001, Phinizy, William wrote:

> Anybody know a source for 1-percent 1/2 watt resistors -- ideally with a
> full range of values, not just the usual 22K, 33K, 47K, etc.?

>

> Thanks in advance

>
> Bill, K6WHP
>
>

Date: Tue, 28 Aug 2001 17:08:49 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: wphinizy@filenet.com, qrp-1@Lehigh.EDU
Subject: [105940] Re: Help! I need a source for "odd" value high-precision resistors..
Message-ID: <F231fpT8vWyu9kstC7t00017a46@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>From: "Phinizy, William" <wphinizy@filenet.com>
>Reply-To: wphinizy@filenet.com
>To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
>Subject: Help! I need a source for "odd" value high-precision resistors..
>Date: Tue, 28 Aug 2001 08:58:51 -0700
>
>Anybody know a source for 1-percent 1/2 watt resistors -- ideally with a
>full range of values, not just the usual 22K, 33K, 47K, etc.?
>

600mW 1% metal film resistors (E24 range) should be easy to get hold of.
They are readily available here in the UK, anyway. I use them as my standard resistor.

Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Tue, 28 Aug 2001 13:31:16 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: j.p.osburn@ieee.org
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [105941] Re: TKIT 1056 on 6 meters
Message-ID: <3B8BD564.71B51CC3@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim,

You actually would probably be better off if you used a heterodyne VF0.
Pick a crystal to be the base oscillator and then build a simple VF0 to
mix with it to make the 50 mHz signal you want.

73

Date: Tue, 28 Aug 2001 19:12:25 +0100
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-l@Lehigh.EDU
Subject: [105942] NEQRP SSB NET TONITE Tuesday at 7:30PMEDST 7.285Mhz +-5Khz
Message-ID: <0F133CCFB8.BE577953-0N85256AB6.0063E78D@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Time again for the net.

Ron - N1ZSW net control

Date: 28 Aug 2001 14:22:30 EDT
From: Edwin Lappi <ae4ec@usa.net>
To: qrp-l@Lehigh.EDU
Subject: [105943] HW-8 package sold
Message-ID: <20010828182230.26359.qmail@aw161.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

The HW-8 package has also been sold - leaves me with room for a K2- Thank=

s
a bunch guys.
73/72
Ed, AE4EC

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Tue, 28 Aug 2001 19:26:03 +0100
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-1@Lehigh.EDU
Subject: [105944] Thanks for antenna help
Message-ID: <0FEFBEA443.F2D27C94-0N85256AB6.00642C93@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

I want to thank all that took the time to send me info on antennas for my yard. I received info on 44' ladder feed dipole, loop, vertical, and magnetic loops.

Seab (AA1MY) was kind enough to drop by yesterday and saw first-hand what a real dilemma I have. He was amazed that I do as well as I do with my windom in the attic especially since the trim on the eaves is aluminum and the power lines across the street are at the same height as the antenna, and the phone and cable lines are also run though the attic. I have to run QRP to stay off the phone and TV sets!!

Again thanks to all. To the few that needed more info: the back of the house faces south-southwest. For legal reasons I have to stay within the 22/38 foot square. Can't use the trees behind me! The house is really a three-level as the drive under garage is almost at ground level.

The house is vinyl sided but the trim is covered with white enamelled aluminum material.

I have started to gather material for an 80 and 40 meter copper magnetic loop.

Ron - N1ZSW

Date: Tue, 28 Aug 2001 12:31:12 -0600

From: "Mugleston, Brad" <brad.mugleston@gwl.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [105945] Sheet Metal Fabrication kit
Message-ID: <F9645092A142D3118CBD00805F15292E15CAF31B@eb-mail1.gwl.com>
MIME-Version: 1.0
Content-Type: text/plain

Harbor Freight has their 18" sheet metal fabrication kit on "SALE". I actually was looking for a break and shear to do some body work and mess around with.

Has anyone used this device? It's different than what I was expecting but if it works, it works! For \$89.99 for the tool and \$29.99 for the adjustable guide fence (I don't have to worry about shipping as we have one near my home) is there anything better?

I don't want to start a Harbor Freight thread. I realize that their tools are not the best quality but when purchased for a specific around the house project they seem to work fine. I wouldn't want to go into production with any of their tools but for one project use they seem to be fine and if they are still in working shape when your done all the better.

de KI00T, Brad

Date: Tue, 28 Aug 2001 14:55:54 -0400
From: "Kwik, Ed " <ed.kwik@delphiauto.com>
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [105946] Michigan QRP Net 9:00 PM Easntern time on 3.535 Mhz
Message-ID:
<9F176F70FD71AC48AFC36F879D2B84E32C3AE9@tryexch01.NorthAmerica.DelphiAuto.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Yep. It's Tuesday. We will see how the latest solar conditions work on 80 meters.

Ed AB8DF

Date: Tue, 28 Aug 2001 13:15:18 -0700
From: "Rich Wilkerson" <richqrp@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [105947] IC 737
Message-ID: <000d01c12ffe\$287a8000\$f5460418@elcjin1.sdca.home.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello to the group,

My 737 has developed a problem of the lower bands will not operate, 75 & 40. all others ok, but all the nets I listen to are on these bands. What I need to know is, what is this thing worth ? I do not know if it would be worth the repair bill.

Thanks, Rich / WD6FDD

Date: Tue, 28 Aug 2001 13:59:43 -0700
From: "Mike Morrell" <morrellm@ameritech.net>
To: qrp-l@lehigh.edu
Subject: [105948] Cover of July 2001 QRP Quarterly
Message-ID: <280801240.50367@webbox.com>
Mime-Version: 1.0
Content-Type: text/plain

While I am an avid golfer and qrp'er, that cover does not sit too well with me. Had they " staged " this I could see the humor but my sense is they did not and the op actually uses the rig while on the course between shots.

>From a golfers point of view, noise from ANY radio is NOT allowed even during a causal round of golf and believe me sounds carry a long way on the course.

I do have a good sense of humor, but in the case of ham radio and golf, each has their place...

Mike K8KE

Date: Tue, 28 Aug 2001 17:03:45 -0400
From: Ken Newman <N2CQ@citnet.com>
To: epaqrp-l@lehigh.edu, QRP-L@lehigh.edu, njqrp@njqrp.org, n9avg@amsat.org
Subject: [105949] [CONTEST] Fall QRP Homebrewer Sprint Announcement

Message-ID: <3.0.6.32.20010828170345.0080b320@mail.citnet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fall QRP Homebrewer Sprint

September 24, 2001 0000-0400 UTC

(Sunday evening in the US)

Put down the soldering iron and get on the air with other QRP homebrewers! The NJQRP and "QRP Homebrewer" magazine are sponsoring this fun, quick and easy QRP sprint ... with a homebrew twist! Includes PSK31 mode and multipliers for home-built gear. Prizes for the winner(s) and certificates according to entry numbers.

Mission: Promote homebrewed & homemade equipment on the air together. (Warblers too!) Anyone with ANY equipment can enter.

Sponsor: New Jersey QRP Club (<http://www.njqrp.org>)

When: The fourth Monday in March and September 0000-0400 UTC
(Sunday evening in USA/Canada)

Modes: CW and PSK31. (Both modes considered separate bands)
QRP CW and PSK31 frequencies recommended on 80, 40, 20, 15 and 10 meters.

Exchange: RST - State/Province/Country - Power out

QSO Points:

2 Commercial Equipment
3 Homebrew Xmtr or Rcvr
4 Homebrew Xmtr AND Rcvr or Xcvr
5 Homebrew PSK31 station
(Kits are ok for homebrew)

Power Mult: 0-250 MW = x 15, 250MW-1W = x10, 1-5W = x7, >5W = x1.
(The highest power used during the contest for the mult.)

Multiplier: State/Province/Country for all bands. The same station may be worked on more than one band for QSO points and SPC credit. CW and PSK31 are considered separate bands.

SCORE: Points(total for all bands)

x SPC (total for all bands)
x power multiplier.

AWARDS: Awards of current NJQRP Club kits or subscriptions to "QRP Homebrewer" will be provided based on the number of entries received. Special certificates will also be awarded.

LOGS: Entries must be received by 30 days from the contest. The log sheets and summary should be included. E-mail logs are accepted in text form. (No word processor files etc). Also paper logs are ok.

Please include your Soapbox info with your equipment and exploits.

Send logs to:

Ken Newman, N2CQ
81 Holly Drive
Woodbury, NJ 08096

or send by email to n2cq@arrl.net

Date: Tue, 28 Aug 2001 17:40:09 -0400
From: "Roof Joe" <jroof@mindspring.com>
To: <qrp-l@Lehigh.EDU>
Subject: [105950] Re: Cover of July 2001 QRP Quarterly
Message-ID: <000301c1300a\$032d6f40\$0201a8c0@s0024177560>

Wow, this is hard to believe.
Joe W4JHR

End of QRP-L Digest 2295

